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JUN 16 2003

TECH CENTER 1600/2900

DOCKET NO.: 9528-003-27

ASSISTANT COMMISSIONER FOR PATENTS  
PO BOX 1450  
ALEXANDRIA, VA 22313-1450

Re: Serial No.: 09/813,398  
Applicant(s): Bruce D. WEINTRAUB, et al.  
Filing Date: March 20, 2001  
For: CYSTINE KNOT GROWTH FACTOR MUTANTS  
Group Art Unit: 1647  
Examiner: Lorraine Spector

SIR:

Attached hereto for filing are the following papers:

Fee Transmittal  
Request for Extension of Time (3 months)  
Amendment (including attachment)

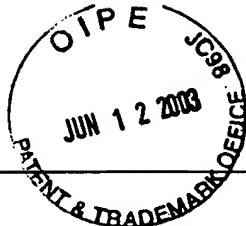
Our check in the amount of \$2,058.00 is attached covering any required fees. In the event any variance exists between the amount enclosed and the Patent Office charges for filing the above-noted documents, including any fees required under 37 C.F.R. 1.136 for any necessary extension of time to make the filing of the attached documents timely, please charge or credit the difference to Deposit Account No. 50-1442. Further, if these papers are not considered timely filed, then a request is hereby made under 37 C.F.R. 1.136 for the necessary extension of time. A duplicate copy of this sheet is enclosed.

Respectfully submitted,

PIPER RUDNICK LLP

Steven B. Kelber  
Attorney of Record  
Registration No.: 30,073

Patrick R. Delaney  
Registration No.: 45,338



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FEE TRANSMITTAL						Docket No.		9528-003-27				JUN 16 2003				
						Serial No.		09/813,398								
						Filing Date		March 20, 2001				TECH CENTER 1600/2900				
						Inventor(s)		Bruce D. WEINTRAUB, et al.								
						Group Art Unit		1647								
TOTAL AMOUNT OF PAYMENT				\$2,058.00		Examiner		Lorraine Spector								
1. <input checked="" type="checkbox"/> Applicant claims small entity status.  <input checked="" type="checkbox"/> Charge any <u>UNDERPAYMENT</u> or credit any <u>OVERPAYMENT</u> in the indicated fees to Deposit Account No. 50-1442.  <input type="checkbox"/> Charge the indicated fees to Deposit Account No. 50-1442.						FEE CALCULATION (continued)										
						3. ADDITIONAL FEES										
						Large Entity		Small Entity		Fee Description						
2. <input checked="" type="checkbox"/> Check enclosed.						Fee Code	Fee (\$)	Fee Code	Fee (\$)		Fee Paid					
FEE CALCULATION						1051	130	2051	65	Surcharge-late filing fee or oath						
1. BASIC FILING FEE						1052	50	2052	25	Surcharge-late provisional filing fee or cover sheet						
Large Entity		Small Entity		Fee Description		1053	130	1053	130	Non-English specification						
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Paid		1812	2520	1812	2520	Ex parte reexam. fee						
1001	750	2001	375	Utility filing fee		1251	110	2251	55	1-mo. ext. of time						
1002	330	2002	165	Design filing fee		1252	410	2252	205	2-mo. ext. of time						
1003	520	2003	260	Plant filing fee		1253	930	2253	465	3-mo. ext. of time	\$465.00					
1004	750	2004	375	Reissue filing fee		1254	1450	2254	725	4-mo. ext. of time						
1005	160	2005	80	Provisional filing fee		1255	1970	2255	985	5-mo. ext. of time						
SUBTOTAL (1)						\$0.00		1401	320	2401	160	Notice of Appeal				
2. EXTRA CLAIM FEES						1402	320	2402	160	Appeal Brief						
tot. claims		197	-	20*	=	177	x	\$9	=	1593	1403	280	2403	140	Request for Oral Hearing	
ind. claims		2	-	3*	=	0	x	\$42	=	0	1501	1300	2501	650	Utility/Reissue Issue Fee	
<input type="checkbox"/>		Multiple Dependent Claims				\$140	=				1502	470	2502	235	Design Issue Fee	
Large Entity		Small Entity		Fee Description		1503	630	2503	315	Plant Issue Fee						
Fee Code	Fee (\$)	Fee Code	Fee (\$)	Fee Paid		1460	130	1460	130	Petitions to the Commissioner						
1202	18	2202	9	Claims in excess of 20		1806	180	1806	180	IDS Submission						
1201	64	2201	42	Independent claims in excess of 3		8021	40	8021	40	Assignment						
1203	280	2203	140	Multiple dependent claim, if not paid		1801	750	2801	375	For Filing RCE						
1204	64	2204	42	*Reissue independent claims over original patent		1802	900	1802	900	Expedited Design						
1205	18	2205	9	*Reissue claims in excess of 20 and over original patent		OTHER (indicate below):										
SUBTOTAL (2)						\$1,593.00										
* or number previously paid, if greater; For Reissues, see above						SUBTOTAL (3)						\$465.00				

Name	Steven B. Kelber	Registration No.		30,073	
Signature		Date	June 12, 2003	Telephone	202-861-3900
Name	Patrick R. Delaney	Registration No.		45,338	

DOCKET NO. 9528-003-27



**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

IN RE APPLICATION OF: Bruce D. WEINTRAUB, et al.

ART UNIT: 1647

SERIAL NO.: 09/813,398

EXAMINER: Lorraine Spector

FILING DATE: March 20, 2001

FOR: CYSTINE KNOT GROWTH FACTOR MUTANTS

**AMENDMENT**

ASSISTANT COMMISSIONER FOR PATENTS  
WASHINGTON, D.C. 20231

SIR:

Responsive to the outstanding Office Action dated December 12, 2002, entry of the following amendments is respectfully requested.

**IN THE SPECIFICATION**

Please delete the second full paragraph at page 5, line 7 through page 6, line 4 and insert therefor the following:

a<sup>1</sup> ~~Compositions and methods based on mutant Cystine Knot Growth Factors (CKGFs) comprising amino acid substitutions relative to the wild type hormone/growth factor. Mutated glycoprotein hormones, including thyroid stimulating hormone (TSH) and chorionic gonadotropin (CG) are disclosed as exemplary mutant CKGFs. Mutant TSH heterodimers and hCG heterodimers possessed modified bioactivities, including superagonist activity. Additionally, a variety of mutant CKGF family proteins are disclosed. For example, mutant CKGF proteins disclosed include mutant platelet-derived growth factor (PDGF) family proteins such as mutant PDGF homo- and heterodimers, and mutant vascular epithelial cell growth factor~~

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